

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>LU6142/CB</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP2004/012358</b>	International filing date (day/month/year) <b>02/11/2004</b>	(Earliest) Priority Date (day/month/year) <b>04/11/2003</b>
Applicant  <b>BASELL POLYOLEFINE GMBH</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regards to the drawings,**

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012358

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08F10/00 C08F4/642 C07F17/00 C07D333/52

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07F C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>RYABOV A N ET AL: "ZIRCONIUM COMPLEXES WITH CYCLOPENTADIENYL LIGANDS INVOLVING FUSED A THIOPHENE FRAGMENT" ORGANOMETALLICS, ACS, COLUMBUS, OH, US, vol. 21, no. 14, 2002, pages 2842-2855, XP001106373 ISSN: 0276-7333 page 2842, column 1, line 1 - line 16 page 2842, column 2, line 7 - page 2843, column 3, line 2 page 2847, scheme 11 page 2849, figure 9</p> <p>----- -/-</p>	1-10

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

4 January 2005

Date of mailing of the international search report

12/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Thomas, D

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/012358

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 03/106470 A (BASELL POLYOLEFINE GMBH ; SCHULTE JOERG (DE); BINGEL CARSTEN (DE); OBE) 24 December 2003 (2003-12-24) page 4, line 30 - line 38 page 10, line 26 page 12, line 35 - line 36 claim 1	1-10
X	----- EP 0 549 900 A (HOECHST AG) 7 July 1993 (1993-07-07) page 1, line 1 - line 3 page 13, line 30 - line 43 page 17; examples 1,2 examples	1,5-10
A	----- EP 1 327 636 A (BASELL POLYOLEFINE GMBH) 16 July 2003 (2003-07-16) claims	1-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/012358

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03106470	A	24-12-2003	DE 10226182 A1 WO 03106470 A1	24-12-2003 24-12-2003
EP 0549900	A	07-07-1993	AT 141609 T AU 651915 B2 AU 2972892 A CA 2084017 A1 DE 59206948 D1 EP 0549900 A1 ES 2093166 T3 JP 3371118 B2 JP 6184179 A RU 2098423 C1 US 5455366 A ZA 9209213 A	15-09-1996 04-08-1994 03-06-1993 31-05-1993 26-09-1996 07-07-1993 16-12-1996 27-01-2003 05-07-1994 10-12-1997 03-10-1995 24-05-1993
EP 1327636	A	16-07-2003	EP 0938491 A1 EP 1327636 A2 AU 733813 B2 AU 5321698 A BR 9715006 A CA 2271861 A1 CN 1244201 A , B DE 69721807 D1 DE 69721807 T2 WO 9822486 A1 ES 2197377 T3 HU 9904527 A2 ID 22443 A JP 2001504824 T KR 2000053294 A NO 992352 A PL 333462 A1 RU 2194708 C2 TR 9901635 T2 TW 394779 B ZA 9710211 A	01-09-1999 16-07-2003 24-05-2001 10-06-1998 05-12-2000 28-05-1998 09-02-2000 12-06-2003 04-03-2004 28-05-1998 01-01-2004 28-05-2000 14-10-1999 10-04-2001 25-08-2000 08-07-1999 20-12-1999 20-12-2002 21-02-2000 21-06-2000 03-06-1998